# **Question Paper Preview**

Question Paper Name:Electronics and Communication EngineeringSubject Name:Electronics and Communication Engineering

Mathematics

Number of Questions: 50
Display Number Panel: Yes
Group All Questions: No

Question Number: 1 Question Id: 6780945204 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If the traces of A and B are 20 and -8 then the trace of (A+B) is \_\_\_\_

**Options:** 

- 1. 12
- 2. -12
- 3. 28
- <sub>4.</sub> -28

Question Number: 2 Question Id: 6780945205 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If  $A = \begin{bmatrix} x & 1 \\ 1 & 0 \end{bmatrix}$  is an involutory matrix then  $x = \begin{bmatrix} x & 1 \\ 1 & 0 \end{bmatrix}$ 

**Options:** 

- 1. 0
- , -2
- 3 -1
- , 2

Question Number: 3 Question Id: 6780945206 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The determinant of 
$$\begin{bmatrix} \log e & \log e^2 & \log e^3 \\ \log e^2 & \log e^3 & \log e^4 \\ \log e^3 & \log e^4 & \log e^5 \end{bmatrix}$$
 is \_\_\_\_

**Options:** 

- 5loge

Question Number: 4 Question Id: 6780945207 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

If 
$$A = \begin{bmatrix} 1 & 1 & 0 \\ 2 & 1 & 3 \\ 0 & 1 & 2 \end{bmatrix}$$
 then  $\det(adjA) =$ \_\_\_\_

**Options:** 

- det A
- $\det A^2$
- $-\det A$   $\det A$   $\left(\det A\right)^2$

Question Number: 5 Question Id: 6780945208 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

If A, B are two matrices and AB=B, BA=A then  $A^2 + B^2 =$ 

**Options:** 

- A+B

Question Number: 6 Question Id: 6780945209 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

If 
$$\frac{3x+2}{(x+1)(2x^2+3)} = \frac{A}{x+1} + \frac{Bx+C}{2x^2+3}$$
, then  $A+C-B =$ \_\_\_\_\_

**Options:** 

- , (
- ຸ 2
- 3 3
- <sub>4</sub> 5

Question Number: 7 Question Id: 6780945210 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If 
$$\frac{3x}{(x-a)(x-b)} = \frac{2}{x-a} + \frac{1}{x-b}$$
 then  $a:b =$ \_\_\_\_

**Options:** 

- $_{1}$  -2:1
- 2:1
- , 1:2
- 4. 3:1

Question Number: 8 Question Id: 6780945211 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The value of  $\tan 855^\circ =$ 

**Options:** 

- 1. 1
- $\frac{1}{\sqrt{2}}$
- $_{3}$  -1
  - $-\frac{1}{\sqrt{2}}$

Question Number: 9 Question Id: 6780945212 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If 
$$\tan \alpha = \frac{m}{m+1}$$
 and  $\tan \beta = \frac{1}{2m+1}$  then  $\tan(\alpha + \beta) = \underline{\hspace{1cm}}$ 

- \_1 -1
- 2 0
- , 1
- 4. 2

Question Number: 10 Question Id: 6780945213 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The value of  $6\sin 20^{\circ} - 8\sin^3 20^{\circ} =$ 

**Options:** 

- , 2
- $\frac{1}{\sqrt{2}}$
- $\sqrt{3}$
- $\frac{1}{\sqrt{3}}$

Question Number: 11 Question Id: 6780945214 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If  $3\sin\theta + 4\cos\theta = 5$  then the value of  $4\sin\theta - 3\cos\theta =$ 

**Options:** 

- 1. 0
- 2 -1
- 3 1
- 4. 2

Question Number: 12 Question Id: 6780945215 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The sine function with period 3 is

- $sin \frac{2\pi x}{3}$
- $sin\frac{\pi x}{3}$

$$sin 3\pi x$$

2

$$\sin \frac{3\pi x}{2}$$

Question Number: 13 Question Id: 6780945216 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The maximum value of  $3\sin^2 x + 5\cos^2 x$  is \_\_\_\_\_

# **Options:**

- . 8
- , 3
- 3 5
- 4. 34

Question Number: 14 Question Id: 6780945217 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The equation  $\sqrt{3}\sin x + \cos x = 4$  has \_\_\_\_\_

# **Options:**

- Only one solution
- two solutions
- , Infinite solutions
- no solution

Question Number: 15 Question Id: 6780945218 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The solution of  $\cos^{-1}(\sqrt{3}x) + \cos^{-1}x = \frac{\pi}{2}$  is \_\_\_\_

- $\frac{1}{2}$
- $\frac{1}{\epsilon}$
- \_1
- 3

$$-\frac{1}{5}$$

Question Number: 16 Question Id: 6780945219 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The value of  $\sin \theta + \sin(\theta + 120^\circ) - \sin(120^\circ - \theta) =$ 

**Options:** 

- , 0
- $\sin \theta$
- , 1
- $-\sin\theta$

Question Number: 17 Question Id: 6780945220 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The principal solution of 3CosecA = 4SinA is \_\_\_\_\_

**Options:** 

- $\frac{\pi}{4}$
- $\pm \frac{\pi}{3}$
- $\pm \frac{\pi}{6}$
- $\pm 2\pi$

Question Number: 18 Question Id: 6780945221 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If  $|z^2 - 1| = |z|^2 + 1$ , then z lies in \_\_\_\_\_

**Options:** 

- The real axis
- , a circle
- The imaginary axis

a parabola

4.

Question Number: 19 Question Id: 6780945222 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If 
$$\left(\frac{1+i}{1-i}\right)^3 - \left(\frac{1-i}{1+i}\right)^3 = a+ib$$
, then a an b are \_\_\_\_\_

**Options:** 

- 1, 1,1
- , 2,-2
- , 0,-2
- 0,-1

Question Number : 20 Question Id : 6780945223 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

If the line y = 2x + c is a tangent to  $x^2 + y^2 = 5$  then the value of c is \_\_\_\_\_

**Options:** 

- , 2
- 2 3
- 3 4
- 4 5

Question Number : 21 Question Id : 6780945224 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The vertex of the parabola  $x^2 + 8x + 12y + 4 = 0$  is

**Options:** 

- (-4,1)
- (4,-1)
- (-4,-1)
- (4,1)

Question Number : 22 Question Id : 6780945225 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The number of tangents to the ellipse  $\frac{x^2}{4} + \frac{y^2}{2} = 1$  through (2,1) is \_\_\_\_\_

**Options:** 

1. 0

Question Number: 26 Question Id: 6780945229 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

$$\lim_{x \to 2+} \frac{x |x-2|}{x-2} = \underline{\hspace{1cm}}$$

**Options:** 

- 1. 1
- \_\_1
- , 2
- 4 -2

Question Number : 27 Question Id : 6780945230 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

If  $f(x) = (1+x)^{\frac{2}{x}}$  is continuous at x = 0 then  $f(0) = \underline{\hspace{1cm}}$ 

**Options:** 

- 1. e
- $e^2$
- , e3
- $1 e^4$

Question Number : 28 Question Id : 6780945231 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

If  $x = a \sec \theta$ ,  $y = b \tan \theta$  then  $\frac{dy}{dx} =$ \_\_\_\_

$$\frac{b}{a}\sec\theta$$

- $\frac{b}{a}$ cosec  $\theta$
- $\frac{a}{b}\sec\theta$ 
  - $\frac{a}{b}$  cosec  $\theta$

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If 
$$x^y = e^{x-y}$$
 then  $\frac{dy}{dx} =$ \_\_\_\_

**Options:** 

$$\frac{\log x}{(1+\log x)^2}$$

$$\frac{\log x}{(1-\log x)^2}$$

$$\frac{-\log x}{(1+\log x)^2}$$

$$\frac{-1}{(1+\log x)^2}$$

Question Number: 30 Question Id: 6780945233 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

If 
$$y = \sin^{-1}\left(\frac{x}{\sqrt{1+x^2}}\right)$$
 then  $\frac{dy}{dx} =$ \_\_\_\_

**Options:** 

$$-\frac{1}{1+x^2}$$

$$\frac{1}{1+x^2}$$

$$\frac{2}{1+x^2}$$

$$-\frac{2}{1+x^2}$$

Question Number: 31 Question Id: 6780945234 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

The slope of the normal to the curve  $x = a \sec \theta$ ,  $y = a \tan \theta$  at  $\theta = \frac{\pi}{6}$  is \_\_\_\_\_

Question Number: 32 Question Id: 6780945235 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The rate of change of area of a circle with respect to radius when r=5cm is

**Options**:

- $2\pi$  sq.cm/sec
- $10\pi$  sq.cm/sec
- $_{2}$   $100\pi$  sq.cm/sec
- $20\pi$  sq.cm/sec

Question Number: 33 Question Id: 6780945236 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following function has maxima or minima?

**Options:** 

- $1 e^{x}$
- logo
- $x^3 + x^2 + x + 1$
- $\sin x$

Question Number : 34 Question Id : 6780945237 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

If the increase in the side of a square is 2% then the approximate percentage increase in the area of the square is \_\_\_\_\_

- 1 2
- 2 4
- 3 6
- , 8

Question Number: 35 Question Id: 6780945238 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

For the function  $f(x) = \log(x^2 + y^2)$ , which of the following is true?

# **Options:**

$$f_x + f_y = 0$$

$$f_{xx} + f_{yy} = 0$$

$$f_x - f_y = 0$$

$$f_x - f_y = 0$$

$$f_{xx} + f_{yy} = 0$$
2.
$$f_x - f_y = 0$$
3.
$$f_{xx} - f_{yy} = 0$$
4.

Question Number: 36 Question Id: 6780945239 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

$$\int \csc^5 \theta \cot \theta d\theta = \underline{\hspace{1cm}}$$

## **Options:**

$$\frac{\cot^2 \theta}{2}$$

$$\frac{-\csc^5\theta}{5}$$

$$\frac{\operatorname{cosec}^6 \theta}{6}$$

$$\frac{-\csc^6\theta}{6}$$

Question Number: 37 Question Id: 6780945240 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

$$\int_{2}^{3} \frac{dx}{x^2 - x} =$$
\_\_\_\_\_

$$\log \frac{2}{3}$$

$$log \frac{4}{3}$$

$$\log \frac{8}{3}$$

log-

Question Number : 38 Question Id : 6780945241 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

If a < 0 < b then  $\int_{a}^{b} \frac{|x|}{x} dx = \underline{\qquad}$ 

# **Options:**

- b-a
- a-b
- a+b
- 4 0

Question Number : 39 Question Id : 6780945242 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

 $\int_{0}^{1} x \tan^{-1} x dx = \underline{\qquad}$ 

## **Options:**

$$\frac{\pi}{4} - \frac{1}{2}$$

$$\frac{\pi}{8} - \frac{1}{2}$$

$$\frac{\pi}{4} + \frac{1}{2}$$

$$\frac{\pi}{8} + \frac{1}{2}$$

Question Number : 40 Question Id : 6780945243 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

$$\lim_{n\to\infty} \sum_{r=1}^{n} \frac{1}{n} e^{\frac{r}{n}} = \underline{\qquad}$$

# **Options:**

, e

- (1+e)
- (1-e)
- 4. (e−1)

Question Number: 41 Question Id: 6780945244 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

$$\int_{0}^{\pi/4} \sec^6 x dx = \underline{\qquad}$$

**Options:** 

- 8
- 1. 3
- 28
- $-\frac{28}{15}$ 
  - 4

Question Number : 42 Question Id : 6780945245 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The area bounded by the curve  $y = \log x$ , x-axis and the straight line x-e=0 is \_\_\_\_square units

**Options:** 

- 1. e
- (e-1)
- 3 0
- (1-e)

Question Number : 43 Question Id : 6780945246 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The volume of the solid generated by rotating one arch of the curve y = Sin3x about the x-axis is----

$$\pi^2$$

$$\frac{\pi^2}{2}$$

$$\frac{\pi^2}{4}$$

$$\frac{\pi^2}{6}$$

Question Number: 44 Question Id: 6780945247 Display Question Number: Yes Single Line Question Option: No Option

 $y = cx - c^2$  is the general solution of the differential equation

**Options:** 

$$\left(\frac{dy}{dx}\right)^2 - x\left(\frac{dy}{dx}\right) + y = 0$$

$$d^2y$$

$$\frac{d^2y}{dx^2} = 0$$

$$\frac{dy}{dx} = c$$

$$\frac{d}{dx} = c$$

$$\left(\frac{dy}{dx}\right)^2 + x\left(\frac{dy}{dx}\right) + y = 0$$

Question Number: 45 Question Id: 6780945248 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

The general solution of the differential equation  $\frac{dy}{dx} + \frac{y}{3} = 1$  is

$$y = 3 + ce^{\frac{x}{3}}$$

$$y = 3 + ce^{-\frac{x}{3}}$$

$$3y = c + e^{\frac{x}{3}}$$

$$3y = c + e^{-\frac{x}{3}}$$

Question Number: 46 Question Id: 6780945249 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The differential equation corresponding to the family of curves  $y = ae^{bx}$ , where a and b are arbitrary constants, is \_\_\_\_

**Options:** 

$$\frac{d^2y}{dx^2} = y\frac{dy}{dx}$$

$$y\frac{d^2y}{dx^2} - \frac{dy}{dx} = 0$$

$$y\frac{d^2y}{dx^2} = \left(\frac{dy}{dx}\right)^2$$

$$\frac{dy}{dx} - y^2 = 0$$

Question Number: 47 Question Id: 6780945250 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

An integrating factor of the differential equation

$$(x^2y + y + 1)dx + (x + x^3)dy = 0$$
 is \_\_\_\_

**Options:** 

$$e^x$$

$$x^2$$

Question Number: 48 Question Id: 6780945251 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The differential equation whose solution is  $Ax^2 + By^2$ , where A,B are arbitrary constants are of ----

**Options:** 

1st order and 1st degree

- 2<sup>nd</sup> order and1<sup>st</sup> degree
- 2<sup>nd</sup> order and 2<sup>nd</sup> degree
- <sub>4</sub> 1<sup>st</sup> order and 2<sup>nd</sup> degree

Question Number : 49 Question Id : 6780945252 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The general solution of the differential equation  $\frac{d^2x}{dt^2} - 4\frac{dx}{dt} + 5x = 0$  is

**Options:** 

$$x = (c_1 \cos t + c_2 \sin t)e^{2t}$$

$$t = (c_1 \cos x + c_2 \sin x)e^{2x}$$

$$x = (c_1 \cos 2t + c_2 \sin 2t)e^t$$

$$t = (c_1 \cos 2x + c_2 \sin 2x)e^x$$

Question Number: 50 Question Id: 6780945253 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The particular integral of  $(D-2)^2 y = \sin 2x$  is

**Options:** 

$$\frac{\cos 2x}{8}$$

$$\frac{\sin 2x}{8}$$

$$\frac{-\cos 2x}{2}$$

$$-\sin 2x$$

4 2

Physics

Number of Questions: Display Number Panel: Group All Questions: 25 Yes No Question Number: 51 Question Id: 6780945254 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The unit of impulse is the same as that of

## **Options:**

- moment of force
- linear momentum
- force
- pressure

Question Number: 52 Question Id: 6780945255 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If the force is given by F = at+bt<sup>2</sup> where t is the time. The dimensions of a and b are

## **Options:**

$$ML^2T^{-3}$$
,  $ML^2T^{-2}$ 

$$ML^{2}T^{-3}$$
,  $ML^{3}T^{-4}$ 

Question Number: 53 Question Id: 6780945256 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Vector parallel to  $6\hat{i} + 8\hat{j}$  and having a magnitude of 5 is

#### **Options:**

$$4\hat{\imath} + 3\hat{\jmath}$$

$$12\hat{i} + 16\hat{j}$$

$$3\hat{\imath} + 4\hat{\jmath}$$

Question Number: 54 Question Id: 6780945257 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If  $|\vec{A} \times \vec{B}| = K(AB)$  then angle between  $\vec{A}$  and  $\vec{B}$  is

```
_{1.} cos^{-1}K
```

Question Number: 55 Question Id: 6780945258 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

A cricket ball is thrown at a speed of 28 m/s in a direction 30<sup>0</sup> above the horizontal. The maximum height reached by the ball is

# **Options:**

- 1 10 m
- , 20 m
- <sub>2</sub> 30 m
- 40 m

Question Number: 56 Question Id: 6780945259 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Two bodies are projected at angles of 45° and 60° with the horizontal with same velocity simultaneously. Ratio of their horizontal ranges is

# **Options:**

- √3:2
- 2:√3
- 3 1:2
- 4 2:1

Question Number: 57 Question Id: 6780945260 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

A ball thrown by a boy is caught 2 seconds later by another at some distance away on the same level. If the angle of projection is 30°, the velocity of projection is

19.6 m/sec

9.8 m/sec

4.9 m/sec

5.2 m/sec

Question Number: 58 Question Id: 6780945261 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

A 200 m wide river flows with a velocity of 5 m/sec. A man crosses the river in the shortest time of 25 sec. If there is no flow and he swims with the same velocity, the time taken to cross the river is

# **Options:**

$$\frac{200}{5\sqrt{3}}$$
 sec

20 sec

25 sec

 $25\sqrt{2}$  sec

Question Number: 59 Question Id: 6780945262 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

A body of mass 1 Kg lies on an inclined plane of angle 60<sup>0</sup> to the horizontal. If the coefficient of friction is 0.4, the frictional force along the inclined plane is

## **Options:**

1.96 N

0.98 N

, 0.49 N

4. 0.245 N

Question Number : 60 Question Id : 6780945263 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

A force of 20 Kg weight is required to just slide a wooden box weighing 50 Kg over ice. Then coefficient of static friction between the surfaces in contact is

## **Options:**

1. 0.2

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100 W

<sub>2</sub> 500 W

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   980 W
  900 W
Question Number: 64 Question Id: 6780945267 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
 At t=0, the displacement of a particle in SHM is half its amplitude. Its initial
  phase is (referring to mean position)
Options:
   2\pi
    \pi
Question Number: 65 Question Id: 6780945268 Display Question Number: Yes Single Line Question Option: No Option
  The length of seconds pendulum is 100 cm. To have a period half of this value,
  the length is to be reduced by
Options:
  25 cm
   75 cm
   50 cm
   100 cm
Question Number: 66 Question Id: 6780945269 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
 Inside a big hall, the reverberation time is
Options:
   directly proportional to volume
   inversely proportional to sound absorption
```

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# both directly proportional to volume

and

inversely proportional to sound absorption

depends on temperature

Question Number: 67 Question Id: 6780945270 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The voice of lion is different from that of a mosquito because

# **Options:**

- , the sounds have different pitch
- they are of different size
- the two voices travel with different velocities
- the sounds have different phases

Question Number: 68 Question Id: 6780945271 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

A car is travelling at  $\frac{v}{10}$  m/s and sounds horn of frequency 990 Hz. The apparent frequency heard by a police chasing the car at  $\frac{v}{9}$  m/s (v is the velocity of sound) is

#### **Options:**

- , 990 Hz
- 900 Hz
- <sub>3</sub> 100 Hz
- 4. 1000Hz

Question Number: 69 Question Id: 6780945272 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

When ice cube melts and becomes water, the ice-water system undergoes a change such that

- entropy of the system decreases and internal energy decreases
- entropy of the system decreases and internal energy increases

entropy of the system increases and internal energy increases

entropy of the system increases and internal energy decreases

Question Number: 70 Question Id: 6780945273 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

A mass of 300 gm falls from a height of 3 m(g=9.8 m/s<sup>2</sup>). Assuming that the whole energy is converted into heat, the amount of heat produced is

# **Options:**

- 2 cal
- 2.1 cal
- 4 cal
- 4.2 cal

Question Number: 71 Question Id: 6780945274 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

During an adiabatic expansion of 2 moles of a gas, the change in internal energy was found to be equal to 100 J. The work done during the process will be equal to

## **Options:**

- zero
- <sub>2</sub> -100 J
- <sub>2</sub> 200 J
- 100 J

Question Number: 72 Question Id: 6780945275 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The pressure and density of a diatomic gas ( $\gamma = \frac{7}{5}$ ) change adiabatically from

(P,d) to (P<sup>1</sup>,d<sup>1</sup>). If 
$$\frac{d^1}{d}$$
 = 32, then  $\frac{P^1}{P}$  is

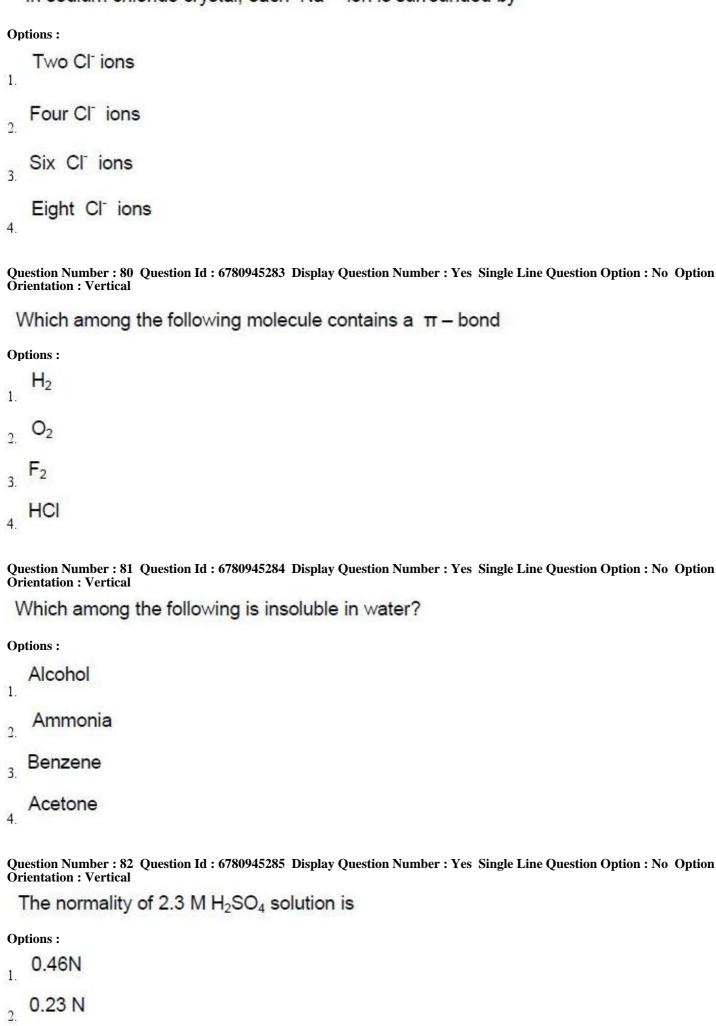
- 128
- 2. 32

3. 256			
4. 64			
Question Number: 73 Question Id: 6780945276 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical			
Boyle's law holds good for an ideal gas during			
Options:			
isobaric changes			
isothermal changes			
isochoric changes			
isotopic changes			
Question Number : 74 Question Id : 6780945277 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical			
The threshold frequency of metal is $v_0$ . When a light of frequency 4 $v_0$ is			
incident on metal then the K.E <sub>max</sub> of emitted electrons is			
Options:			
2 v <sub>0</sub> h			
$\frac{3 v_0 h}{2}$			
$\frac{4 v_0 h}{}$			
υ <sub>0</sub> h			
Question Number : 75 Question Id : 6780945278 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical			
Superconductors are materials			
Options:			
1. dielectric			
paramagnetic 2.			
ferromagnetic			
diamagnetic			

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Display Number Panel:	Yes
Group All Questions:	No
Question Number: 76 Question Id: 6780945279 Orientation: Vertical	Display Question Number : Yes Single Line Question Option : No Option
The Pauli exclusion principle is	concerned with
Options:	
Energy of orbital.	
Spin of electron.	
3. Energy of electron	
Angular momentum of electron	
Question Number: 77 Question Id: 6780945280 Orientation: Vertical	Display Question Number : Yes Single Line Question Option : No Option
According to Bohr's model of hyd	rogen atom, the following is quantized
Options:	
Linear momentum	
Linear velocity	
Angular momentum	
4. Angular velocity	
Question Number: 78 Question Id: 6780945281 Orientation: Vertical	Display Question Number : Yes Single Line Question Option : No Option
How many 'd' - orbitals have tw	vo perpendicular nodal planes
Options:	
Two	
2. Three	
Four 3.	
Five 4.	
Question Number: 79 Question Id: 6780945282 Orientation: Vertical	Display Question Number : Yes Single Line Question Option : No Option

# In sodium chloride crystal, each Na<sup>+</sup> ion is surrounded by



3. 2.3 N

Question Number: 84 Question Id: 6780945287 Display Question Number: Yes Single Line Question Option: No Option

The pH value of 0.05M Ba(OH)<sub>2</sub> solution is

## **Options:**

- 10
- 3. 13
- 11

Question Number: 85 Question Id: 6780945288 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

Which of the following molecule is not a Lewis Base?

## **Options:**

H<sub>2</sub>O

BF<sub>3</sub>

CO

Question Number: 86 Question Id: 6780945289 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

During the electrolysis of brine, 710 g of Cl<sub>2</sub> was liberated at anode. The weight of NaOH formed

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   800 g
   400 g
   80 g
   40 g
Question Number: 87 Question Id: 6780945290 Display Question Number: Yes Single Line Question Option: No Option
 In the Danniel cell, which electrode acts as anode?
Options:
   Cu
   Hg
    Zn
   Ρt
Question Number: 88 Question Id: 6780945291 Display Question Number: Yes Single Line Question Option: No Option
  The molar conductance of HCl is more than that of NaCl because
Options:
NaCl is more polar than KCl
  NaCl is ionic while HCl is covalent
3. Ionic mobility of H<sup>+</sup> is more than that of Na<sup>+</sup>
  H<sup>+</sup> get hydrated.
Question Number: 89 Question Id: 6780945292 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
 The units for electrochemical equivalent are
Options:
    grams
   grams ampere
   Coulomb
   Grams per coulomb
Question Number: 90 Question Id: 6780945293 Display Question Number: Yes Single Line Question Option: No Option
```

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**Orientation: Vertical** 

Zeolite so	oftening process removes	
------------	--------------------------	--

Ontions	٠
<b>Options</b>	٠

- Only permanent hardness of water
- Only temporary hardness of water
- Both temporary and permanent hardness of water
- The dissolved gases in permanent hard water.

Question Number: 91 Question Id: 6780945294 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The permanent hardness of water is caused by the presence of

## **Options:**

1.

Bicarbonates of Ca and Mg

- Carbonates of Na and K
- Chlorides and Sulphates of Ca and Mg.
- Phosphates of Na and K

Question Number: 92 Question Id: 6780945295 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The secondary treatment of water uses \_\_\_\_\_ to consume wastes in water.

## **Options:**

Filtration

- 1.
- Sedimentation
- Chemicals
- Microorganisms

Question Number: 93 Question Id: 6780945296 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

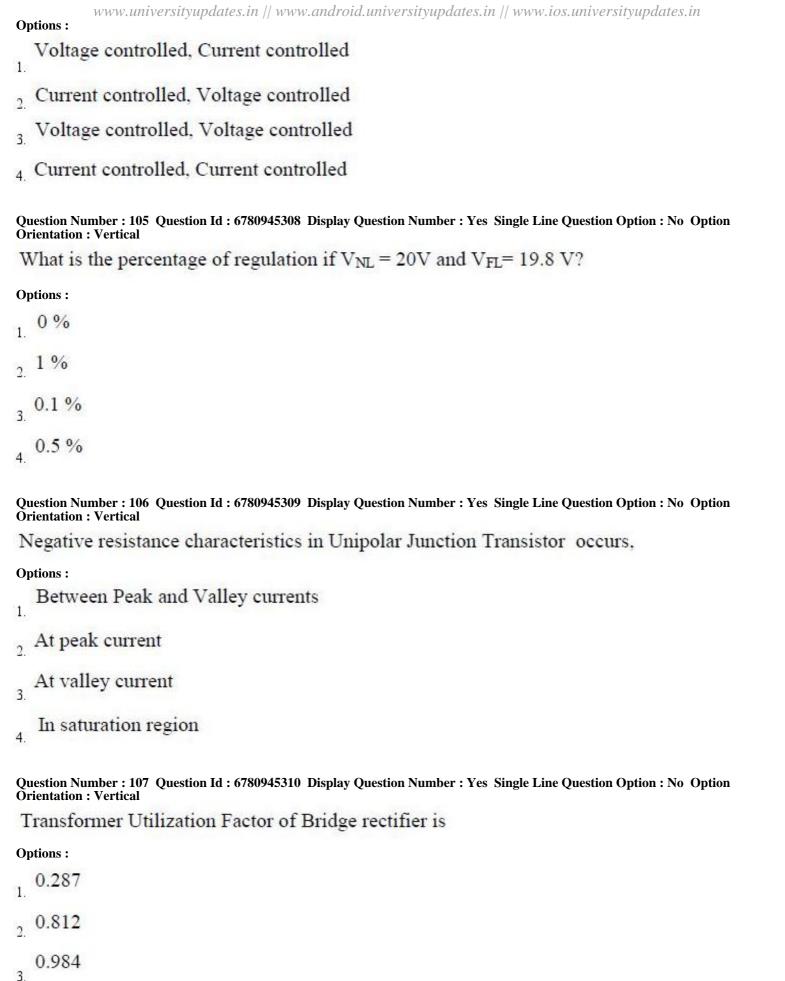
Difficult to monitor and very dangerous form of corrosion is

- Galvanic
- Pitting

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Crevice 3.
Stress 4.
Question Number: 94 Question Id: 6780945297 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
When Pt and Co are electrically connected, which one gets corroded?
Options:
1. Co
<sub>2.</sub> Pt
None None
4. both
Question Number: 95 Question Id: 6780945298 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
What rubber was invented when Dr. Joseph C. Patrick tried to make antifreeze?
Options:
Methyl rubber
Chloroprene 2.
Bruna N
4. Thiokol
Question Number: 96 Question Id: 6780945299 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
The first plastic ever synthesized was called
Options:
Bakelite 1.
2. Nylon
Dacron 3.
4. Cellulose
Question Number : 97 Question Id : 6780945300 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
is a brand of polyester textile fiber that is wrinkle resistant and strong
Options:

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Dacron
Bakelite 3.
Nylon 4.
Question Number: 98 Question Id: 6780945301 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Water gas is a mixture of
Options:  1. H <sub>2</sub> + CO
N <sub>2</sub> + CO
$_{3.}$ $H_2 + CO_2$
H <sub>2</sub> + CH <sub>4</sub>
Question Number: 99 Question Id: 6780945302 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Which of the following is not a greenhouse gas?
Options:
1. CO
2. CO <sub>2</sub>
3. water vapour
4. CH <sub>4</sub>
Question Number: 100 Question Id: 6780945303 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Burning of fossil fuels causes
Options:
Global warming
Ozone depletion
3. Acid rain
Eutrophication 4.

FET is	device and BJT is	device versityupdates.in    www.ios.universityupdates.in
Orientation : Vertical		ion Number : Yes Single Line Question Option : No Option
4. LED		
Schottky diode		
Varactor diode		
Gunn diode		
Options:		
	pically used for tuning circ	cuit applications is
Question Number: 103 Qu Orientation: Vertical	nestion Id: 6780945306 Display Quest	ion Number : Yes Single Line Question Option : No Option
4. Conversion		
<sub>3.</sub> Diffusion		
2. Transition		
Depletion 1.		
Options:		
Which capacitance	e dominates in forward bia	s
Question Number : 102 Qu Orientation : Vertical	nestion Id: 6780945305 Display Quest	ion Number : Yes Single Line Question Option : No Option
A defective ohm	meter	
A good diode		
A shorted diode		
1. An open diode		
Options:		
that the diode is		
A high resistance	reading in both forward bi	as and reverse bias directions indicate
Question Number : 101 Qu Orientation : Vertical	nestion Id: 6780945304 Display Quest	ion Number : Yes Single Line Question Option : No Option
Display Number Pane Group All Questions:		Yes No
Number of Questions:	: "	100
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Question Number: 108 Question Id: 6780945311 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

4. 0.693

# Voltage buffer is the application of

# **Options:**

- . Common Emitter amplifier
- . Emitter follower
- Common Base amplifier
- Common Drain amplifier

Question Number: 109 Question Id: 6780945312 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following coupling provides high power amplification

## **Options:**

- Direct coupling
- RC coupling
- 3 Transformer coupling
- Impedance coupling

Question Number: 110 Question Id: 6780945313 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The type of power amplifier which exhibits crossover distortion in its output is

#### **Options:**

- Class A
- 2 Class AB
- 3. Class B
- 4. Class C

Question Number: 111 Question Id: 6780945314 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Input impedance of an ideal operational amplifier is,

- Zero
- , 100 Ω
- $1 M \Omega$
- Infinite

**Orientation: Vertical** 

$$\frac{1.45}{(R_A + R_B)C}$$

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$$1.45(R_A + R_B)C$$

$$\frac{1.45}{(R_A + 2R_B)C}$$

$$_{4}$$
 1.45(R<sub>A</sub> + 2R<sub>B</sub>)C

Question Number: 116 Question Id: 6780945319 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Superposition theorem can be applied only to circuits having

# **Options:**

resistive elements

- passive elements
- non-linear elements
- linear bilateral elements

Question Number: 117 Question Id: 6780945320 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

For maximum transfer of power, internal resistance of the source should be

### **Options:**

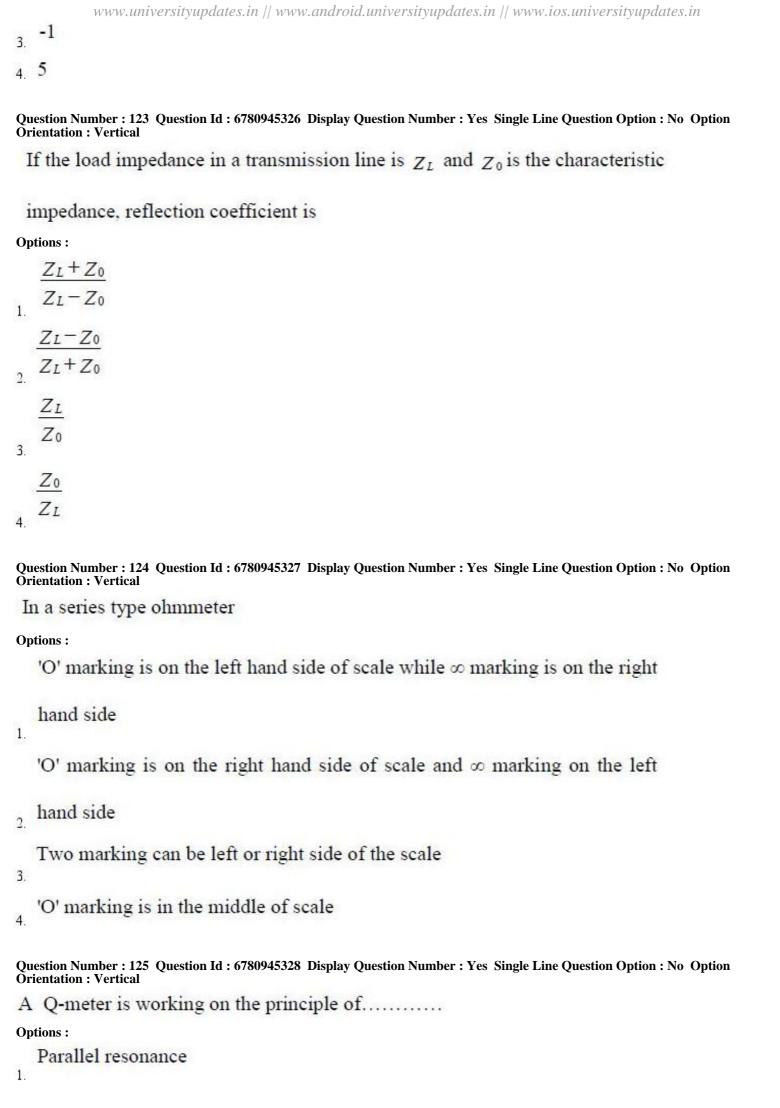
- equal to load resistance
- less than the load resistance
  - greater than the load resistance
- 4 zero

Question Number: 118 Question Id: 6780945321 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

"Considering two loops A and B of a network and if an ideal voltage source E in loop A produces a current I in loop B, then interchanging positions, if an identical source in

loop B produces the same current in loop A" - the statement is associated with,

- Compensation theorem
- Superposition theorem
- Reciprocity theorem



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Either on Parallel or Series resonance
Neither on Parallel nor Series resonance
Question Number: 126 Question Id: 6780945329 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
A sampling CRO is used for
Options:  1. HF
VLF
3. VHF
4. LF
Question Number: 127 Question Id: 6780945330 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical  Time base generators are called
Options: compensating network 1.
phantastron 2.
sweep circuit
restoring circuit 4.
Question Number: 128 Question Id: 6780945331 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
The sensitivity of voltmeter is defined as
Options:
$_{1.}$ $\Omega$ / $V$
$_{2.}$ V/ $\Omega$
3. I / Ω
4. Ω / I
Question Number: 129 Question Id: 6780945332 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The range of AF oscillators

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10 kHz to 30 MHz
1.
20 HZ to 20kHz
dc to 5 MHz
4. 1.5 MHz to 30 MHz
Question Number: 130 Question Id: 6780945333 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
An SCR combines the features of
Options:
A rectifier and resistance
2. A rectifier and transistor
A rectifier and capacitor
A rectifier and inductor
Question Number: 131 Question Id: 6780945334 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
A triac has semiconductor layers
Options:
1. Two
Three 2.
Four 3
4. Five
Question Number: 132 Question Id: 6780945335 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
A chopper
Options:
converts constant voltage dc into ac and then into variable voltage dc
converts constant voltage dc into variable voltage dc directly
converts ac of one frequency into ac of another frequency 3.
converts ac to dc 4.

Question Number: 133 Question Id: 6780945336 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

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www.universityupdates.in    www.android.universityupdates.in    www.ios.universityupdates.in    is a timer which controls the number of cycles for which the welding
current flows and the number of cycles for which it is disallowed
Options:
pulsation timer 1.
line control timer
sequence timer
heat control timer 4.
Question Number: 134 Question Id: 6780945337 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical method has leading power factor
Options:
resistance heating 1.
dielectric heating
arc heating 3.
inductive heating 4.
Question Number: 135 Question Id: 6780945338 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
If the carrier of a 100% modulated AM wave is suppressed, the percentage power
saving will be
Options:
1, 50
2. 150
<sub>3.</sub> 100
4. 66.66
Question Number: 136 Question Id: 6780945339 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
The image channel rejection in a super heterodyne receiver comes from
Options:  IF stages only  1.

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  RF stages only
   detector and RF stages only
   detector, RF and IF stages
Question Number: 137 Question Id: 6780945340 Display Question Number: Yes Single Line Question Option: No Option
The most commonly used signaling for PCM is --
Options:
  RZ
  NRZ
  Bipolar
  Manchester
Question Number: 138 Question Id: 6780945341 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
 The FM modulation Index ---
Options:
  Increases with both frequency deviation and modulation frequency
1.
  Decreases with frequency deviation and increases with modulation
  frequency
   Increases with frequency deviation and decreases with modulation
   frequency
  Is equal to twice the frequency deviation
Question Number: 139 Question Id: 6780945342 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
In FM, the amount of frequency deviation is proportional to--
Options:
   Amplitude of modulating signal
   frequency of the carrier
   the frequency of modulating signal
  phase of modulating signal
```

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inversely proportional to antenna heights

Question Number: 143 Question Id: 6780945346 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Critical frequency of the ionospheric layer, if N<sub>max</sub> is 1x10<sup>6</sup> electrons/m<sup>3</sup> is....

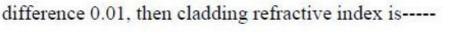
# **Options:**

9KHz

1.

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2. 81KHz
3. 9MHz
4. 81MHz
Question Number: 144 Question Id: 6780945347 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
During day time the ionospheric layer that does not exist is
Options:
1. D
2. F
3. F1
4. F2
Question Number: 145 Question Id: 6780945348 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
The wavelength of a 100MHz Electro Magnetic Wave propagating through a
perfect non-magnetic dielectric with relative permittivity '9' is
Options:
1. 3m
2. 3cm
3. 100cm
4. 10cm
Question Number: 146 Question Id: 6780945349 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
An EM wave incident on a perfect conductor is
Options:
Entirely reflected 1.
2. Partially reflected
Partially Transmitted 3.
4. Fully Transmitted
Question Number: 147 Question Id: 6780945350 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

# Step-index optical fiber core refractive index is 1.48 with core-cladding index



# **Options:**

- 0.0148
- 1.46
- 1.49
- 148

Question Number: 148 Question Id: 6780945351 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The power pattern of surface emitter LED is----

# **Options:**

Half-power pattern

- Full-power pattern
- Lambertian Pattern
- Quarter-power pattern

Question Number: 149 Question Id: 6780945352 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The following, which splicing technique is used for permanent joint-----

# **Options:**

Fusion splice

V-groove splicing

- Elastic –tube splice
- Expanded beam splice

Question Number: 150 Question Id: 6780945353 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The directivity of a half-wave dipole is----

- 1.50
- 1.64
- 3 1.0

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3.28

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- 2. a
- <sub>2</sub> a/2
- 4a

Question Number: 159 Question Id: 6780945362 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The dominant mode in most waveguides is----

# **Options:**

- $TM_{11}$
- $TM_{10}$
- $_{2}$  TE<sub>10</sub>
- 4 TE<sub>11</sub>

Question Number: 160 Question Id: 6780945363 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The binary equivalent of decimal number 57 is,

#### **Options:**

- 1111001
- 01010111
- 101111
- 4 1100101

Question Number: 161 Question Id: 6780945364 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The minimum number of NAND gates required to implement

$$A + A\overline{B} + A\overline{B}C$$
 is

- 1 0
- , 1
- 3 4

32
4. 64
Question Number : 166 Question Id : 6780945369 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
A register which is capable to shift the data both to the right and left is called,
Options:
Parallel register
Universal register
3. Serial register
Static shift register 4.
Question Number: 167 Question Id: 6780945370 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Which of the following is an example of volatile memory?
Options:
1. ROM
2. RAM
3. PROM
Hard-disk 4.
Question Number: 168 Question Id: 6780945371 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Successive approximation type ADC with N output bits, the number of clocks
required is,
Options:
N 1.
2N+1
3. 2 <sup>N</sup>
2 <sup>N</sup> -1

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 $Question\ Number: 169\ Question\ Id: 6780945372\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$ 

# Which of the following is a D/A converter?

# **Options:**

Successive approximation type

Dual slope technique

Weighted resistor type

Counter type technique

Question Number: 170 Question Id: 6780945373 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

In a 8085 microprocessor, the register which holds address of the next instruction

to be fetched is,

## **Options:**

1.

Accumulator

Program counter

Stack pointer

Instructor Register

Question Number: 171 Question Id: 6780945374 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

8085 microprocessor does not have

#### **Options:**

- Zero flag
- , Sign flag
- 3 Parity flag
- Overflow flag

Question Number: 172 Question Id: 6780945375 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The 8051 Microcontroller is of .....pin package as a......Processor

- 30, 1 byte
- 20, 1 byte

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3. 40, 8 bit
  40, 8 byte
Question Number: 173 Question Id: 6780945376 Display Question Number: Yes Single Line Question Option: No Option
In 8051, which interrupt has highest priority
Options:
   IE1
   TF0
   IE0
   TF1
Question Number: 174 Question Id: 6780945377 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
 8051 has......16 bit counter/timers
Options:
Question Number: 175 Question Id: 6780945378 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
 In 8085 processor, which interrupt is Edge trigger interrupt
Options:
   Trap
  RST 7.5
   RST 6.5
  RST 5.5
Question Number: 176 Question Id: 6780945379 Display Question Number: Yes Single Line Question Option: No Option
The interrupt having highest priority in 8085 processor is
Options:
   Trap
```

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  RST 7.5
  RST 6.5
  RST 5.5
Question Number: 177 Question Id: 6780945380 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
AJMP will cause a jump with in.....Range
Options:
   16KB
   64KB
   2KB
   1KB
Question Number: 178 Question Id: 6780945381 Display Question Number: Yes Single Line Question Option: No Option
The instruction used to access data from external memory
Options:
1. MOV
  MOVC
  MOVX
   MOVN
Question Number: 179 Question Id: 6780945382 Display Question Number: Yes Single Line Question Option: No Option
Registers r15,r13 in ARM Processor are
Options:
  LR.SP
   SP.PC
   PC.SP
   SP.LR
Question Number: 180 Question Id: 6780945383 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
```

Trace period of a horizontal line is

www.universityupdates.in || www.android.universityupdates.in || www.ios.universityupdates.in Question Number: 184 Question Id: 6780945387 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** The Television picture tube has: **Options:** Magnetic focus and electrostatic deflection Magnetic focus and magnetic deflection Electrostatic focus and electrostatic deflection Electrostatic focus and magnetic deflection Question Number: 185 Question Id: 6780945388 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** Optical fibers use reflection to guide light through **Options:** Light

- channel
- plastic
- metal

Question Number: 186 Question Id: 6780945389 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

Which network supports pipelining effect?

#### **Options:**

- Circuit-switched networks
- Message-switched networks
- Packet switched networks
- Virtual circuit switched networks.

Question Number: 187 Question Id: 6780945390 Display Question Number: Yes Single Line Question Option: No Option **Orientation: Vertical** 

The layer responsible for end to end delivery of the entire message is

## **Options:**

Application layer

Transport layer

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Session layer
4. Data link layer
Question Number: 188 Question Id: 6780945391 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Which device is used to handle carrier detection and collision detection in LANs?
Options:
1. Router
Repeater 2.
Packet assembler/disassembler 3.
Trans-receiver 4.
Question Number: 189 Question Id: 6780945392 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
In which method, one channel carries all transmissions simultaneously
Options:
1. TDMA
2. CDMA
<sub>3.</sub> FDMA
4. CSMA
Question Number: 190 Question Id: 6780945393 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Transmission control protocol (TCP), is also protocol like,
Options:
1. UDP
2. SCTP
3. CMP
4. IP
Question Number: 191 Question Id: 6780945394 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
In synchronous transfer mode(ATM), network to network interfaces are used to
connect the
Options:

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   Cells
  frames
   endpoints
   switches
Question Number: 192 Question Id: 6780945395 Display Question Number: Yes Single Line Question Option: No Option
How will you print \n on the screen?
Options:
  printf("\n");
  echo "\\n";
  printf('\n');
  printf("\\n");
Question Number: 193 Question Id: 6780945396 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
Preprocessor feature that supply line numbers and filenames to compiler is called?
Options:
   Selective inclusion
   macro substitution
   Concatenation
   Line control
Question Number: 194 Question Id: 6780945397 Display Question Number: Yes Single Line Question Option: No Option
Orientation: Vertical
 The value obtained in the function is given back to main by using
keyword?
Options:
   return
   static
  new
3.
  volatile
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```

Question Number: 195 Question Id: 6780945398 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following are the two main components of the CPU?

# **Options:**

- Control Unit and Registers
- Registers and Main Memory
- Control unit and ALU
- ALU and bus

Question Number: 196 Question Id: 6780945399 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Personal computers used a number of chips mounted on a main circuit board.

What is the common name for such boards?

## **Options:**

Daughterboard

- Motherboard
- Father board

Child board

Question Number: 197 Question Id: 6780945400 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The first recognized modern embedded system is

## **Options:**

- Apple Computer
- Apollo Guidance Computer
- Calculator
- Cell phone

Question Number: 198 Question Id: 6780945401 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

In VLSI design, which process deals with the determination of resistance &

capacitance of interconnections?

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Placement & Routing
Testing 3.
Extraction 4.
Question Number: 199 Question Id: 6780945402 Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
A set of Concurrent assignment statements to representstyle of modeling
in Verilog HDL.
Options:
Behavioral 1.
2. Data flow
3. Structural
4. Mixed style
Question Number : 200 Question Id : 6780945403 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
An IC containing more than 100000 gates will be designated as
Options:
LSI 1.
2. VLSI
3. MSI
4. ULSI